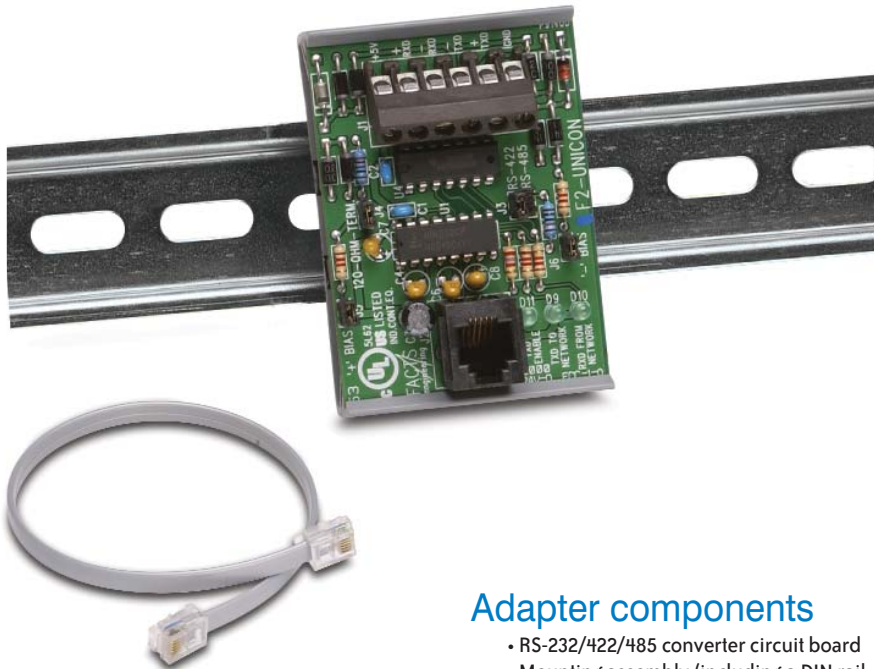# F2-UNICON Universal Converter

General specifications

- Max. network distance: 4000 feet
- Max. baud rate: 19.2 Kbaud
- Supply voltage: 5 VDC (from CPU)
- Max. driver load: 62 Ω
- Driver voltage: ±1.5V minimum
- No load current: 65 mA
- Max. current: 100 mA
- Operating temp: 60°C (140°F)

Example of system using F2-UNICON

A) F2-UNICON converts the network master's (computer) RS-232 communications card signal levels to RS-422/485, which is suitable for a multi-drop network.

B) F2-UNICON converts the RS-422/485 signal levels back to RS-232 for a connection to the D2-240 CPU bottom port.

C) F2-UNICON converts the RS-422/485 signal levels back to RS-232 for a connection to the D2-240 CPU bottom port.

D) F2-UNICON converts the RS-422/485 signal levels back to RS-232 for a connection to the DL05 port 2

Adapter components

- RS-232/422/485 converter circuit board
- Mounting assembly (including a DIN rail bracket) for the circuit board
- 1 ft. modular cable with two RJ12 6P6C plugs

F2-UNICON   <--->

The F2-UNICON Universal Converter converts RS-232 signal levels to RS-422 signal levels or RS-422 signal levels into RS-232 signals. The F2-UNICON does not offer the benefit of network isolation that the FA-ISOCON offers. The F2-UNICON has been specifically designed to be used with the DL05 and D2-240 CPUs. It offers features such as:

- Easily mounts to DIN rail
- Does not require an external power source. It obtains power from the +5V pin on the D2-240 CPU port (bottom port) and the DL05 (port 2).
- Has transmit and receive LEDs to simplify troubleshooting.

Installation is a "snap"

The F2-UNICON comes with a DIN rail housing for the circuit board. Simply snap the board into the housing and mount it on a DIN rail (or flush-mount it on a panel). Connect the communications wiring to the convenient terminal blocks, then connect the adapter to the CPU port with the cable.

Network master

FA-ISOCON Converter

D2-240

Bottom port ONLY!

D2-240

Port 2 ONLY!

DL05

F2-UNICON

GND		6	SIG GND
RXD+		5	+5V IN
RXD–		4	TXD
TXD–		3	RXD
TXD+		2	CTS
		1	SIG GND

2.0"
(50.8mm)

2.86"
(72.6mm)
(including DIN rail) bracket)

Phone jack allows you to use modular cable (included) to quickly connect the D0-05 or D2-240 to the F2-UNICON.

Wiring terminals make it easy to connect communications wiring, especially for multidrop configurations.

Drawing not to scale